INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) (Use several sheets if necessary) Application Number Confirmation Number Filing Date First Named Inventor

of

7

Sheet

Application Number

Confirmation Number

Filing Date February 5, 2004

First Named Inventor Vishnu K. Agarwal

Group Art Unit

Examiner Name

Attorney Docket No. 108298404US1

[U	S. PATENT DOCUMENTS		
Examiner Initials*	Cite No.	U.S. Patent or Application Kind Code NUMBER (if known)		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
10		6,331,488	B1	Doan et al.	12/18/2001	
		6,350,180	B2	Southwick	02/26/2002	
		6,350,691	B1	Lankford	02/26/2002	
		6,352,466	B1	Moore	03/05/2002	
		6,352,470	B2	Elledge	03/05/2002	
		6,354,919	B2	Chopra	03/12/2002	
		6,354,929	B1	Adefris et al.	03/12/2002	
		6,354,930	B1	Moore	03/12/2002	
		6,358,122	B1	Sabde et al.	03/19/2002	
		6,361,400	B2	Southwick	03/26/2002	
		6,361,417	B2	Walker et al.	03/26/2002	
		6,361,832	B1	Agarwal et al.	03/26/2002	
		6,364,749	B1	Walker	04/02/2002	
		6,364,757	B2	Moore	04/02/2002	
		6,409,586	B2	Walker et al.	06/25/2002	
Va		6,413,153	B1	Molar	07/02/2002	
10		6,579,799	B2	Chopra et al.	06/17/2003	
		OTHER PRIOR	ART	-NON PATENT LITERATURE D	OCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), tille of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.				
AD	**	KONDO, S. et al., "Abrasive-Free Polishing for Copper Damascene Interconnection", Journal of the Electrochemical Society, 147 (10) 3907-3913 (2000).				

			<u> </u>	
EXAMINER	A 1A		DATE CONSIDERED	1
	Anthony	$\mathcal{O}_{\mathcal{A}}$	12	304
*EXAMINER:	Initial if reference consid	dered, whether or not criteria is in conf	ormance with MPEP 609. Draw line through	citation if not in conformance and
	not considered. Include	copy of this form with next communic	ation to application(s).	

Form PTO-1449 (Modified) (Use several sheets if necessary)

of

6

Sheet

COMPLETE IF KNOWN				
Application Number				
Confirmation Number				
Filing Date	February 5, 2004			
First Named Inventor	Vishnu K. Agarwal			
Group Art Unit				
Examiner Name				
Attorney Docket No.	108298404US1			

U.S. PATENT DOCUMENTS						
Examiner	Cite No.	U.S. Patent or Applica	Kind Code (if known)	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
20		6,271,139	B1	Alwan et al.	08/07/2001	
		6,273,101	B1	Gonzales et al.	08/14/2001	
		6,273,786	B1	Chopra et al.	08/14/2001	
		6,273,796	B1	Moore	08/14/2001	
		6,273,800	B1	Walker et al.	08/14/2001	
		6,276,996	B1	Chopra	08/21/2001	
		6,277,015	B1	Robinson et al.	08/21/2001	
		6,284,660	B1	Doan	09/04/2001	
		6,287,879	B1	Gonzales et al.	09/11/2001	
		6,290,572	B1	Hofmann	09/18/2001	
		6,290,579	B1	Walker et al.	09/18/2001	
		6,296,557	B1	Walker	10/02/2001	
		6,301,006	B1	Doan	10/09/2001	
		6,306,008	B1	Moore	10/23/2001	. •
		6,306,012	B1	Sabde	10/23/2001	
		6,306,014	B1	Walker et al.	10/23/2001	
		6,309,282	B1	Wright et al.	10/30/2001	
		6,312,558	B2	Moore	11/06/2001	
		6,313,038	B1	Chopra et al.	11/06/2001	
		6,319,108	B1	Adefris et al.	11/20/2001	
	-	6,319,420	B1	Dow	11/20/2001	
		6,323,046	B1	Agarwal	11/27/2001	
		6,325,702	B2	Robinson	12/04/2001	
		6,328,632	B1	Chopra	12/11/2001	
		6,331,135	B1	Sabde et al.	12/18/2001	
(h)		6,331,139	B2	Walker et al.	12/18/2001	

EXAMINER Anthony () Ini	DATE CONSIDERED	 f
*EXAMINER: Initial if reference considered, whether or not crite not considered. Include copy of this form with ne	eria is in conformance with MPEP 609. Draw line through citation if no ext communication to application(s).	at in conformance and

Form PTO-1449 (Modified) (Use several sheets if necessary)

of

5

Sheet

	COMPLETE IF KNOWN
Application Number	
Confirmation Number	
Filing Date	February 5, 2004
First Named Inventor	Vishnu K. Agarwai
Group Art Unit	
Examiner Name	
Attorney Docket No.	108298404US1

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.		ind Code	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
(A)	- 115,-	6,190,494	B1	Dow	02/20/2001	
1		6,191,037	B1	Robinson et al.	02/20/2001	-
		6,191,864	B1	Sandhu	02/20/2001	
		6,196,899	B1	Chopra et al.	03/06/2001	
		6,200,901	B1	Hudson et al.	03/13/2001	
		6,203,407	B1	Robinson	03/20/2001	
		6,203,413	B1	Skrovan	03/20/2001	
		6,206,754	B1	Moore	03/27/2001	
		6,206,756	B1	Chopra et al.	03/27/2001	
		6,206,759	B1	Agarwal et al.	03/27/2001	
		6,206,769	B1	Walker	03/27/2001	
		6,210,257	B1	Carlson	04/03/2001	
	i	6,213,845	B1	Elledge	04/10/2001	
		6,220,934	B1	Sharples et al.	04/24/2001	
		6,227,955	B1	Custer et al.	05/08/2001	
		6,234,877	B1	Koos et al.	05/22/2001	
		6,234,878	B1	Moore	05/22/2001	
		6,237,483	B1	Blalock	05/29/2001	
		6,238,270	B1	Robinson	05/29/2001	
		6,238,273	B1	Southwick	05/29/2001	
		6,244,944	B1	Elledge	06/12/2001	
		6,250,994	B1	Chopra et al.	06/26/2001	
		6,251,785	B1	Wright	06/26/2001	
		6,254,460	B1	Walker et al.	07/03/2001	
4		6,261,163	B1	Walker et al.	07/17/2001	
(A)		6,267,650	B1	Hembree	07/31/2001	

EXAMINER	Anthony	Ojini	DATE CONSIDERED	3/04
*EXAMINER:	Initial if reference conside	red, whether or not criteria is in confe	ormance with MPEP 609. Draw line through ci	tation if not in conformance and
	not considered. Include of	copy of this form with next communic	ation to application(s).	

Form PTO-1449 (Modified) (Use several sheets if necessary)

4

Sheet

of

COMPLETE IF KNOWN					
Application Number					
Confirmation Number					
Filing Date	February 5, 2004				
First Named Inventor	Vishnu K. Agarwal				
Group Art Unit					
Examiner Name					
Attorney Docket No.	108298404US1				

U.S. PATENT DOCUMENTS						
Examiner Initjals*	Cite No.	U.S. Patent or Application Kind C NUMBER (if kn		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1	<u> </u>	5,990,012		Robinson et al.	11/23/1999	
1		5,994,224		Sandhu et al.	11/30/1999	
		5,997,384		Blalock	12/07/1999	
		6,036,586		Ward	03/14/2000	
_		6,039,633		Chopra	03/21/2000	
		6,040,245		Sandhu et al.	03/21/2000	
		6,046,111		Robinson	04/04/2000	
		6,054,015		Brunelli et al.	04/25/2000	
		6,057,602		Hudson et al.	05/02/2000	
		6,062,958		Wright et al.	05/16/2000	
		6,083,085		Lankford	07/04/2000	
		6,090,475		Robinson et al.	07/18/2000	
		6,106,351		Raina et al.	08/22/2000	
1		6,108,092		Sandhu	08/22/2000	
1.		6,110,015		Christianson et al.	08/29/2000	
		6,110,820		Sandhu et al.	08/29/2000	
		6,114,706		Meikle et al.	09/05/2000	
		6,120,354		Koos et al.	09/19/2000	
		6,124,207		Robinson et al.	09/26/2000	•
		6,135,856		Tjaden et al.	10/24/2000	
		6,136,043		Robinson et al.	10/24/2000	
		6,139,402		Moore	10/31/2000	
		6,143,123		Robinson et al.	11/07/2000	
			B1	Kramer et al.	01/23/2001	
4		6,186,870	B1	Wright et al.	02/13/2001	
(h)		6,187,681	B1	Moore	02/13/2001	

EXAMINER Anthony Ojini	DATE CONSIDERED	3 64
*EXAMINER: Initial if reference considered, whether or not criteria is not considered. Include copy of this form with next co	in conformance with MPEP 609. Draw line through nmunication to application(s).	citation if not in conformance and

Form PTO-1449 (Modified) (Use several sheets if necessary)

of

3

Sheet

COMPLETE IF KNOWN						
Application Number						
Confirmation Number						
Filing Date	February 5, 2004					
First Named Inventor	Vishnu K. Agarwal					
Group Art Unit						
Examiner Name						
Attorney Docket No.	108298404US1					

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent or Application Kind Code NUMBER (if known)	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
80		5,823,855	Robinson	10/20/1998	
1		5,830,806	Hudson et al.	11/03/1998	
		5,846,336	Skrovan	12/08/1998	
		5,855,804	Walker	01/05/1999	
		5,868,896	Robinson et al.	02/09/1999	
		5,871,392	Meikle et al.	02/16/1999	
		5,879,222	Robinson	03/09/1999	
		5,879,226	Robinson	03/09/1999	
		5,882,248	Wright et al.	03/16/1999	·
		5,893,754	Robinson et al.	04/13/1999	
		5,894,852	Gonzales et al.	04/20/1999	
		5,910,043	Manzonie et al.	06/08/1999	
		5,910,846	Sandhu	06/08/1999	
		5,919,082	Walker et al.	07/06/1999	_
		5,930,699	Bhatia	07/27/1999	
		5,934,980	Koos et al.	08/10/1999	
		5,938,801	Robinson	08/17/1999	
		5,942,015	Culler et al.	08/24/1999	
		5,945,347	Wright	08/31/1999	
		5,954,912	Moore	09/21/1999	
		5,967,030	Blalock	10/19/1999	
		5,972,792	Hudson	10/26/1999	
		5,976,000	Hudson	11/02/1999	
		5,980,363	Meikle et al.	11/09/1999	
A		5,981,396	Robinson et al.	11/09/1999	
AD		5,989,470	Doan et al.	11/23/1999	

EXAMINER	A 44 6	DATE CONSIDERED	
	Anthony Ulini	12	13/04
*EXAMINER:	Initial if reference considered, whether or not criteria is in conf		citation if not in conformance and
	not considered. Include copy of this form with next communic	ation to application(s).	

Form PTO-1449 (Modified) (Use several sheets if necessary)

of

2

Sheet

COMPLETE IF KNOWN			
Application Number			
Confirmation Number			
Filing Date	February 5, 2004		
First Named Inventor	Vishnu K. Agarwal		
Group Art Unit			
Examiner Name			
Attorney Docket No.	108298404US1		

		U	.S. PATENT DOCUMENTS		
Examiner Initials*	Cite No.	U.S. Patent or Application Kind Code NUMBER (if known)	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AD	110.	5,624,303	Robinson	04/29/1997	Note that I sparce / opposit
1		5,643,048	lyer	07/01/1997	
		5,645,682	Skrovan	07/08/1997	
		5,650,619	Hudson	07/22/1997	
		5,655,951	Meikle et al.	08/12/1997	
		5,658,190	Wright et al.	08/18/1997	
		5,663,797	Sandhu	09/02/1997	
		5,679,065	Henderson	10/21/1997	
		5,690,540	Elliott et al.	11/25/1997	
		5,690,705	Holmes et al.	11/25/1997	
		5,698,455	Meikle et al.	12/16/1997	•
		5,702,292	Brunelli et al.	12/30/1997	
		5,725,417	Robinson	03/10/1998	
		5,725,420	Torii	03/10/1998	
		5,733,176	Robinson et al.	03/31/1998	
		5,736,427	Henderson	04/07/1998	
		5,738,567	Manzonie et al.	04/14/1998	
		5,747,386	Moore	05/05/1998	
		5,779,522	Walker et al.	07/14/1998	
		5,782,675	Southwick	07/21/1998	
		5,791,969	Lund	08/11/1998	
		5,792,709	Robinson et al.	08/11/1998	
		5,795,218	Doan et al.	08/18/1998	
		5,795,495	Meikle	08/18/1998	
		5,798,302	Hudson et al.	08/25/1998	
AD		5,801,066	Meikle	09/01/1998	

EXAMINER	L 60'.	DATE CONSIDERED		1		
A all	$T_{\alpha} \rightarrow T_{\alpha} = T_{\alpha} + T_{\alpha$. ~	0	1	
7111	nong (/ jun		1'2_	しろ	104	
, , ,) ~ 0		. –		1- '	

*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).

Form PTO-1449 (Modified) (Use several sheets if necessary)

Sheet

of

COMPLETE IF KNOWN				
Application Number				
Confirmation Number				
Filing Date	February 5, 2004			
First Named Inventor	Vishnu K. Agarwal			
Group Art Unit				
Examiner Name				
Attorney Docket No.	108298404US1			

		U	.S. PATENT DOCUMENTS	
Examiner Initials*	Cite No.	U.S. Patent or Application Kind Code NUMBER (if known)	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
D	**	U.S. Application No. 09/649,429 (Attorney Docket No. 10829.8404US)	Agarwal et al.	Filed 08/28/2000
ВO	**	U.S. Application No. 09/649,427 (Attorney Docket No. 10829.8511US)	Meikle	Filed 08/28/2000
M	**	U.S. Application No. 10/662,901 (Attorney Docket No. 10829.8511US1)	Meikle	Filed 09/15/2003
M		5,020,283	Tuttle	06/04/1991
1		5,177,908	Tuttle	01/12/1993
		5,196,353	Sandhu et al.	03/23/1993
		5,222,329	Yu	06/29/1993
		5,232,875	Tuttle et al.	08/03/1993
		5,234,867	Schultz et al.	08/10/1993
		5,240,552	Yu et al.	08/31/1993
		5,244,534	Yu et al.	09/14/1993
		5,297,364	Tuttle	03/29/1994
		5,314,843	Yu et al.	05/24/1994
		5,421,769	Schultz et al.	06/06/1995
		5,449,314	Meikle et al.	09/12/1995
		5,486,129	Sandhu et al.	01/23/1996
		5,514,245	Doan et al.	05/07/1996
		5,540,810	Sandhu et al.	07/30/1996
		5,609,718	Meikle	03/11/1997
4		5,616,069	Walker et al.	04/01/1997
		5,618,381	Doan et al.	04/08/1997
EXAMINE	f	Anthony Ojini	DATE CONSIDERE	12/3/04
*EXAMINE	ER: In	itial if reference considered, whether or no the considered. Include copy of this form w	t criteria is in conformance with MPEP 60 it next communication to application(s).	9. Draw line through citation if not in conformance and